



# FortiAP 112D



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- New product features
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- Nouvelles fonctionnalités du produit
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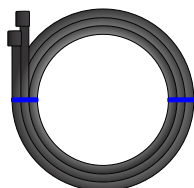
# Box Includes



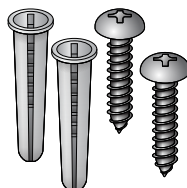
FortiAP 112D



QuickStart Guide



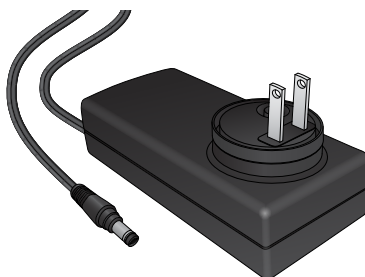
Pole-Mount Straps



Wall Mount Hardware



PoE Injector



Power Adapter

# Before You Begin

Write down details that you may need from your network administrator or ISP.

## Cable Modem DHCP

It is normal to not require a hostname, but your ISP may require it.

Hostname

## Static IP address

IP Address

Subnet Mask

Default Gateway

Primary/Secondary DNS

# 1 Installation

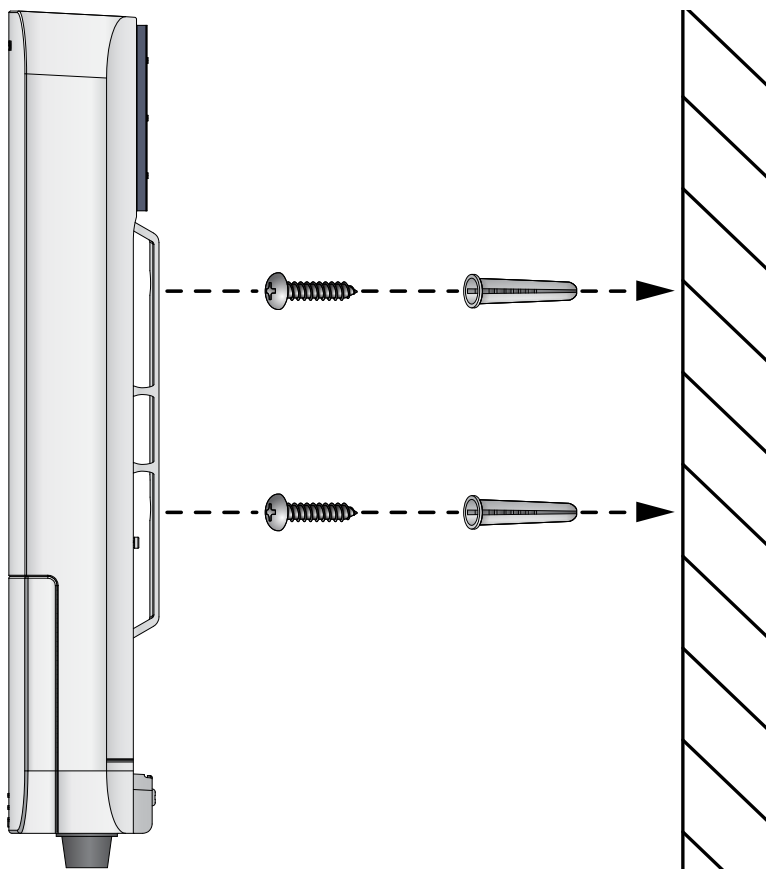
**IMPORTANT NOTE:** The device must be [professionally](#) installed.

The device can be mounted either outdoors or indoors and may be attached to either a [pole](#) or [wall](#).

**Note:** The included [PoE injector](#) must be mounted indoors, as it is not weatherproof.

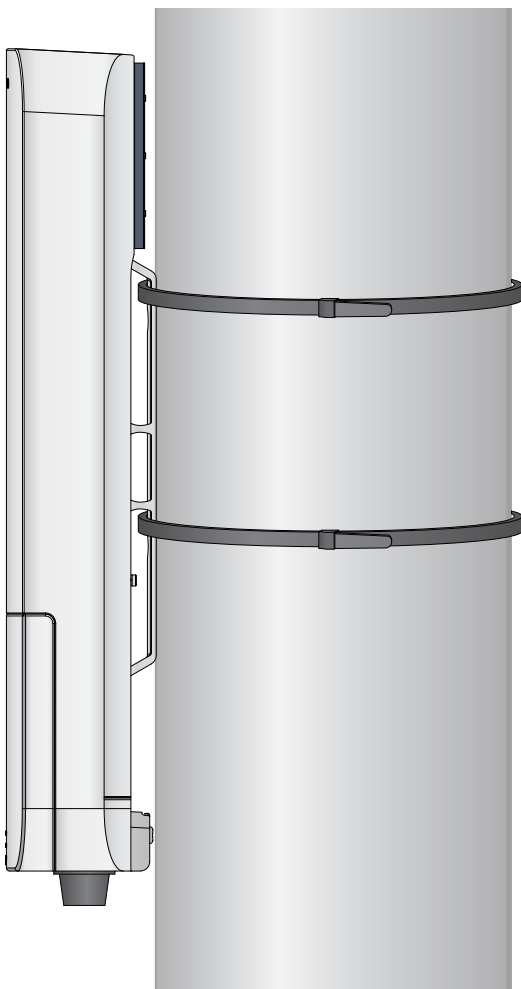
## To mount the device on a wall

1. Insert the [mounting anchors](#) into an appropriate wall.
2. Screw the [mounting screws](#) into the anchors, ensuring that enough of the screw is exposed to allow for mounting the device.
3. Hang the device onto the [mounting screws](#), then slide the unit [downwards](#) to secure it into place.

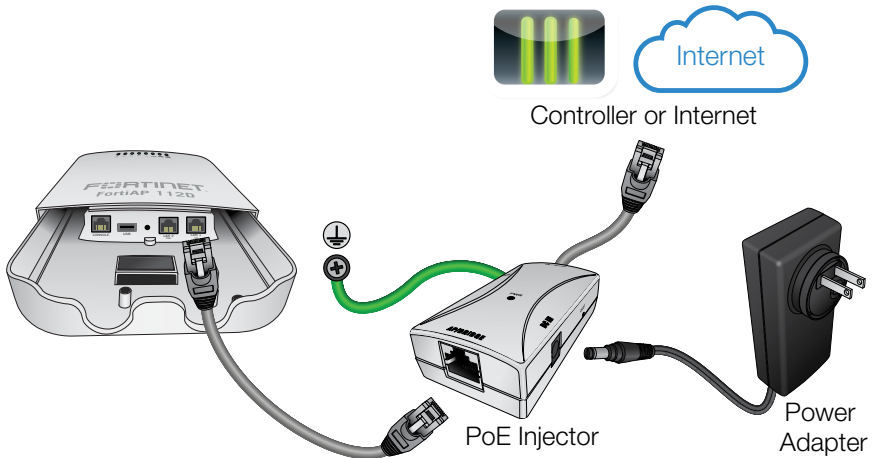


## To mount the FortiAP unit on a pole

1. Loop the provided [pole straps](#) through the slots on the back of the device, then around the [pole](#).
2. Tighten the [straps](#) to ensure that the device is firmly in place.



# 1 Basic Connections



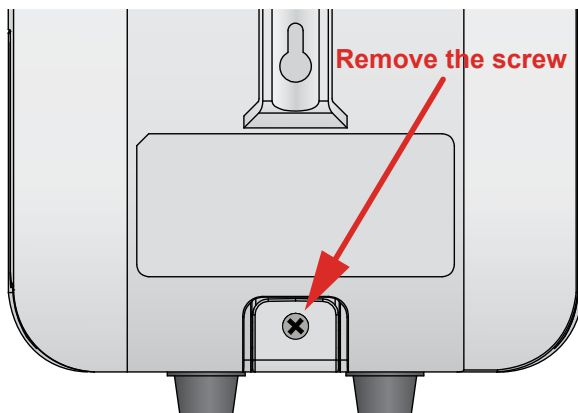
**Note:** The PoE injector is not weatherproof and must be mounted indoors. Use the supplied weatherproof connector to ensure a tight seal around the cable.

**Caution:** Do **not** connect the PoE injector to a PoE enabled Ethernet port.

1. Connect the region-specific AC plug adapter to the AC power adapter by inserting the round disk into the adapter and rotating clockwise until you hear the disk lock in place.
2. Insert the DC plug of the power adapter into the DC IN port on the PoE injector, then plug the AC adapter into an appropriate power outlet. The PWR LED will light up.
3. Connect one end of a cross-over Ethernet cable to the Network port on the PoE injector. Connect the other end to the FortiGate controller or an Internet connection. Do **not** connect the PoE injector to a PoE enabled Ethernet port.



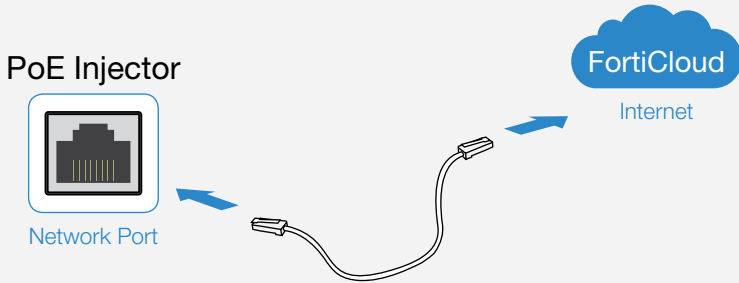
4. Remove the [lower housing cover](#) from the FortiAP unit by unscrewing the screw on the bottom back of the device then sliding the cover off.



5. Insert an [Ethernet cable](#) through one of the holes on the bottom of the housing cover, then plug it into the [LAN 1 PD port](#).
6. Slide the rubber plug around the [Ethernet cable](#) and firmly press it into the hole in the housing that the cable passes through.
7. Replace the [lower housing cover](#) on the unit.
8. Insert the other end of the [Ethernet cable](#) into the [AP/Bridge port](#) on the [PoE injector](#).

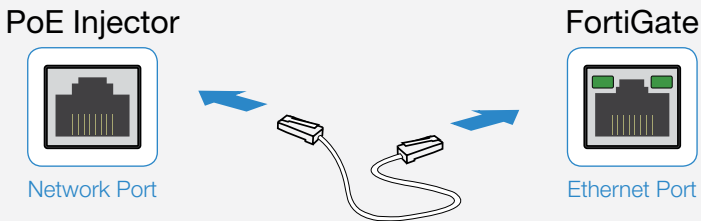
### 3 FortiAP Setup

#### A Cloud provisioning with FortiCloud



OR

#### B FortiGate secured on local network

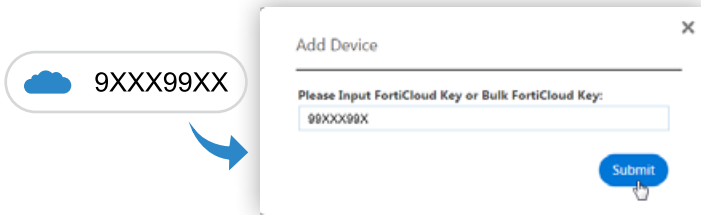


FortiAP Setup Video

<http://video.fortinet.com/video/92/basic-fortiap-setup>

# A FortiCloud

1. Visit <http://www.forticloud.com> and [sign in](#) or [create a new account](#).
2. Click the “[Add Device](#)” link, enter the [unique FortiCloud key](#) located on your FortiAP device, then click [Submit](#).



9XXX99XX

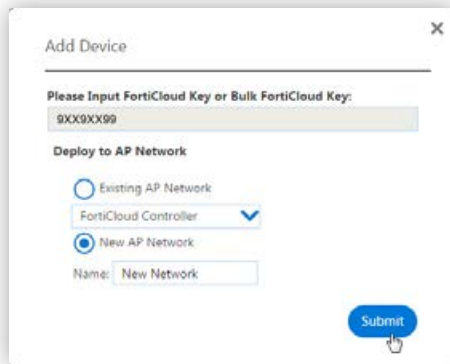
Add Device

Please Input FortiCloud Key or Bulk FortiCloud Key:

99XXX99X

Submit

3. Deploy the FortiAP to an existing AP network, or create a new AP network, then click [Submit](#).



Add Device

Please Input FortiCloud Key or Bulk FortiCloud Key:

9XX9XX99

Deploy to AP Network

☐ Existing AP Network

FortiCloud Controller

☒ New AP Network

Name: New Network

Submit

4. Follow the prompts to associate the [FortiAP](#) device to an [SSID](#).
5. Connect your FortiAP to an [Internet connection](#). This can be a modem or another source of Internet connectivity. The FortiAP will self-configure.

## B Deployment through a FortiGate

### If your FortiGate is on the same network as your FortiAP:

1. Preauthorize your FortiAP device using your FortiGate. If you are not familiar with deploying a FortiAP using your FortiGate, refer to the [“Access Point Deployment”](#) section of the [Deploying Wireless Networks Guide](#) found at <http://docs.fortinet.com>.
2. Plug your FortiAP into your local Ethernet connection. The FortiAP will self-configure.

Or

1. Instead of preauthorizing, you can authorize your FortiAP via the FortiGate after you have connected the FortiAP to your local Ethernet.
2. Within [two minutes](#) of connecting the FortiAP to your FortiGate, the device will appear on the [Managed FortiAP](#) page in the [GUI](#): authorize the device and assign a profile to the device.



### If your FortiGate is not on the same network as your FortiAP:

1. [Log in](#) to the FortiAP directly (IP address: [192.168.1.2](#)) with username [admin](#) and [no password](#), and specify the [IP address](#) of the controlling FortiGate.
2. Connect to the FortiAP via the [CLI](#) using the instructions in the [“Connecting to FortiAP CLI”](#) section of the [Deploying Wireless Networks guide](#).
3. Specify the [IP address](#) of the controlling FortiGate:  

```
cfg -a AC_IPADDR_1=0.0.0.0
```

```
cfg -c
```

where [0.0.0.0](#) is the address of the FortiGate.
4. The FortiAP will connect to the FortiGate, and then you can [authorize](#) the FortiAP.



### Status

- Green: The unit is on
- ☀ Flashing Green: The unit is booting up
- Off: The unit is off

### LAN 1 and 2

- Green: Connected
- ☀ Flashing Green: Link activity
- Off: No link established

### WiFi

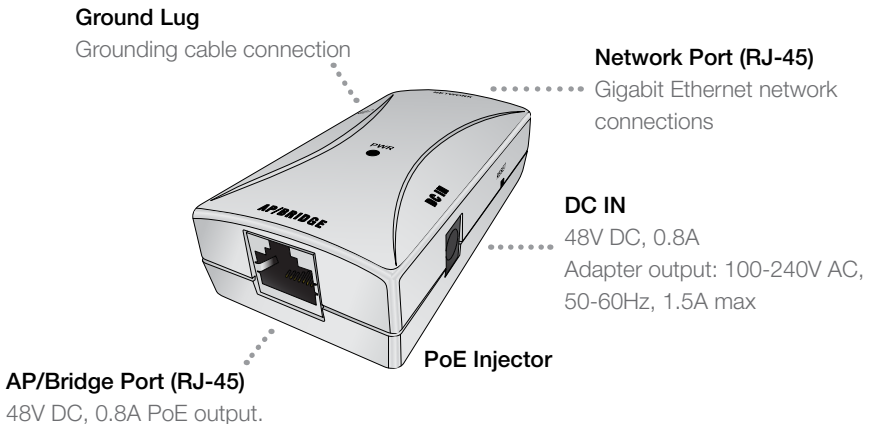
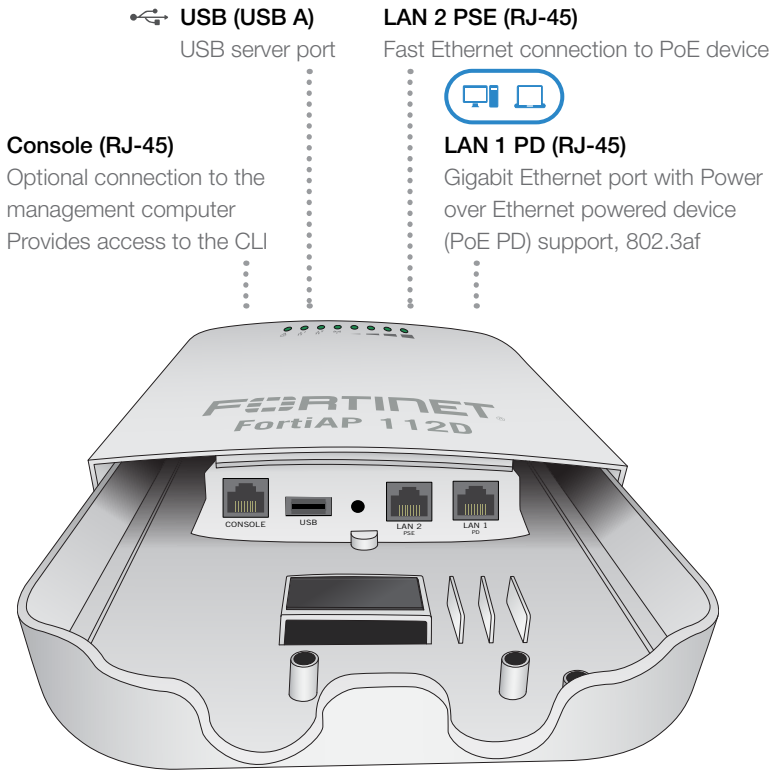
- Green: Connected
- ☀ Flashing Green: Link activity
- Off: No link established

### Mesh Signal Strength

- One Bar: Weak signal
- Two Bars: Okay signal
- Three Bars: Good signal
- Four Bars: Strong signal
- ☀ Cycling: Searching for upstream mesh node
- No Bars: No signal



# Device Guide



# Cautions and Warnings

## Environmental Specifications

Ambient operating temperature: 0–40°C.

Refer to specific Product Model Data Sheet for Environmental Specifications (Operating Temperature, Storage Temperature, Humidity, and Altitude).

Référez à la Fiche Technique de ce produit pour les caractéristiques environnementales (Température de fonctionnement, température de stockage, humidité et l'altitude).

## Safety

**Caution:** This equipment is to be used in a Network Environment 0 per IEC62101. This product is connected only to PoE networks without routing to the outside plant.

**Attention:** Ce matériel doit être utilisé dans un Environnement Réseau 0 par IEC62101. Ce produit est uniquement connecté aux réseaux PoE sans installation externe de routage.

The connecting cable between the outdoor equipment and the indoor ITE devices should comply with Class 3 wiring methods as listed in NEC, Table 725.154(G) for Class 3 Cable Substitutions.

Le câble connectant l'équipement extérieur et ceux d'intérieur de type ITE doit être conforme avec les méthodes de câblage de classe 3 tel que listé dans le standard NEC, Table 725.154(G) pour les câbles de substitutions de classe 3.

This product is intended to be supplied by 55Vdc from Secondary DC Mains Supply or by a UL Listed / IEC Certified ITE AC/DC adaptor rated output 55Vdc, 0.6A min, Tma = 40°C, (marked LPS or Class 2).

Ce produit est fourni par la puissance de 55VDC alimentation secondaire ITE AC / DC adapté, certifié IEC / UL avec l'émission de 55VDC, 0.6A min, Tma = 40°C (Marqué LPS ou classe 2).

PoE input cable type should be CL3, CL3P, CL3R, CL3X, marked "SUNLIGHT RESISTANT", "SUN. RES.", or "SR." and "water resistant" or "W".

Le type de câble PoE d'entrée doit être CL3, CL3P, CL3R, CL3X marqué "SUNLIGHT RESISTANT", "SUN RES.", ou "SR." et "waterproof" ou "W".

If further assistance is needed with purchasing a power source and PoE input cable, please contact Fortinet, Inc.

Si vous avez besoin de plus d'aide à l'achat de l'alimentation et le fil d'entrée PoE, s'il vous plaît communiquer avec Fortinet, Inc.

The Console port is not intended to be connected to the computer after the outdoor installation is completed.

La porte Console n'est pas destinée à être raccordée à l'ordinateur après l'installation extérieure faite.

This equipment is to be connected only to PoE networks (LPS) and maybe installed outdoors except the Surge Protector, the PoE Injector and its external LPS Power Supply which are intended for indoor installation only.

Ce produit doit être connecté uniquement aux réseaux PoE et peut être installé à l'extérieur sauf le protecteur de surtension, l'injecteur PoE et son alimentation LPS externe qui sont destinés à une installation intérieure seulement.

## Regulatory Compliance

### Federal Communication Commission (FCC) – USA

This device complies with Part 15 of FCC Rules. Operation is subject to the following two conditions:

- (1) this device may not cause harmful interference, and
- (2) this device must accept any interference received; including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in residential installation. This equipment generates, uses, and can radiate radio frequency energy, and if it is not installed and used in accordance with the instruction manual, it may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

**WARNING:** Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator and your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

This device meets all the other requirements specified in Part 15E, Section 15.407 of the FCC Rules.



## Industry Canada Equipment Standard for Digital Equipment (ICES) – Canada

CAN ICES-3 (B) / NMB-3 (B)

This device complies with license-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'appliquables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

For product available in the USA/Canada market, only channel 1–11 can be operated. Selection of other channels is not possible.

Pour les produits disponibles aux États-Unis / Canada du marché, seul le canal 1 à 11 peuvent être exploités. Sélection d'autres canaux n'est pas possible.

This equipment complies with IC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator and your body.

Cet équipement est conforme aux limites d'exposition aux rayonnements ISSED établies pour un environnement non contrôlé. Cet équipement doit être installé et utilisé avec un minimum de 20cm de distance entre la source de rayonnement et votre corps.

The maximum antenna gain permitted for devices in the band 5725–5850 MHz shall be such that the equipment still complies with the e.i.r.p. limits specified for point-to-point and non-point-to-point operation as appropriate.

Le gain maximal d'antenne permis (pour les dispositifs utilisant la bande 5725-5850 MHz) doit se conformer à la limite de p.i.r.e. spécifiée pour l'exploitation point à point et non point à point, selon le cas.

## European Conformity (CE) – EU

This is a Class B product. In a domestic environment, this product may cause radio interference, in which case the user may be required to take adequate measures.



### Professional installation instruction

1. Installation personnel  
This product is designed for specific application and needs to be installed by qualified personnel who has RF and related rule knowledge. The general user shall not attempt to install or change the settings.
2. Installation location  
The product shall be installed at a location where the radiating antenna can be kept 20cm from nearby person in normal operation condition to meet Regulatory RF exposure requirement. The installation applies to both indoor and outdoor location.
3. External antenna(s)  
Use only the antenna(s) that have been approved by the manufacturer. The non-approved antenna(s) may produce unwanted spurious or excessive RF transmitting power that may lead to the violation of FCC/ISED limit and is prohibited.
4. Warning  
Please carefully select the installation position and ensure that the final output power does not exceed the limit set forth in relevant rules. The violation of the rule could lead to serious federal penalty.

### Instructions d'installation professionnelle

1. Installation  
Ce produit est conçu pour un usage spécifique et doit être installé par un personnel qualifié maîtrisant les radiofréquences et règle similaires. L'utilisateur ne doit pas tenter d'installer ou de modifier les paramètres.
2. Emplacement d'installation  
En usage normal, afin de respecter les exigences réglementaires concernant l'exposition aux radiofréquences, ce produit doit être installé de façon à respecter une distance de 20cm entre l'antenne émettrice et. L'installation s'applique aux emplacements intérieur et extérieur.
3. Antenne externe(s)  
Utiliser uniquement l'antenne(s) approuvées par le fabricant. L'utilisation d'autres antennes peut conduire à un niveau de rayonnement essentiel ou non essentiel dépassant les niveaux limites définis par FCC/ISED, ce qui est interdit.
4. Avertissement  
Choisir avec soin la position d'installation et s'assurer que la puissance de sortie ne dépasse pas les limites en vigueur. La violation de cette règle peut conduire à de sérieuses pénalités fédérales.

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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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